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River Center, 111 North Canal Street, 8th Floor, Suite 855,
Chicago, IL 60606 • (312) 993-1067 • FAX (312) 993-0226

TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION
EPA CONTRACT 68-01-7367

Mr. Duane Heaton
Deputy Project Officer
Emergency Support Section, 5 HS-12
U.S. Environmental Protection Agency
230 South Dearborn Street
Chicago, Illinois 60604

July 6, 1990

TAT-05-G2-01949

RE: Hendershot and Smith, Inc., Wickliffe, Ohio
TDD# 5-9004-18

Dear Mr. Heaton:

On April 20, 1990, the Technical Assistance Team (TAT) was tasked by the U.S. Environmental Protection Agency (U.S. EPA) to perform a release investigation at Hendershot and Smith, Incorporated (Hendershot & Smith), 28910 Lakeland Blvd, Wickliffe, Ohio. The TAT completed the investigation under the direction of U.S. EPA On-Scene Coordinator (OSC), Steve Renninger. The investigation was conducted on April 20, 1990, and April 23, 1990.

Hendershot and Smith is located in an urban commercial/light industrial area of Wickliffe, Ohio (Figure 1). The facility is comprised of one building containing two separate operations for the treatment of metal parts. The site is bordered to the north by Lakeland Boulevard, to the east by Fen/McCreery, Corporation, to the south by Conrail railroad tracks, and to the west by the City of Euclid Sludge Treatment Plant. State Route 2 is located immediately north of Lakeland Boulevard.

On April 20, 1990, at 1015 hours, OSC Robert Bowlus requested TAT assistance regarding two incidents involving the possible release of quench oil into the sanitary sewer system that had occurred at Hendershot & Smith, Incorporated on April 18, and April 19, 1990. The TAT obtained additional background information through a telephone conversation with Bruce Miller of the Ohio Environmental Protection Agency (OEPA). TAT briefed OSC Renninger on events leading up to the investigation, and arranged to meet with him and Chief Edward Bochenek at the Wickliffe Fire Department at 1330 hours.

Roy F. Weston, Inc.
MAJOR PROGRAMS DIVISION

In Association with ICF Technology, Inc., C.C. Johnson & Malhotra, P.C., Resource Applications, Inc.,
and R.E. Sarriera Associates

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

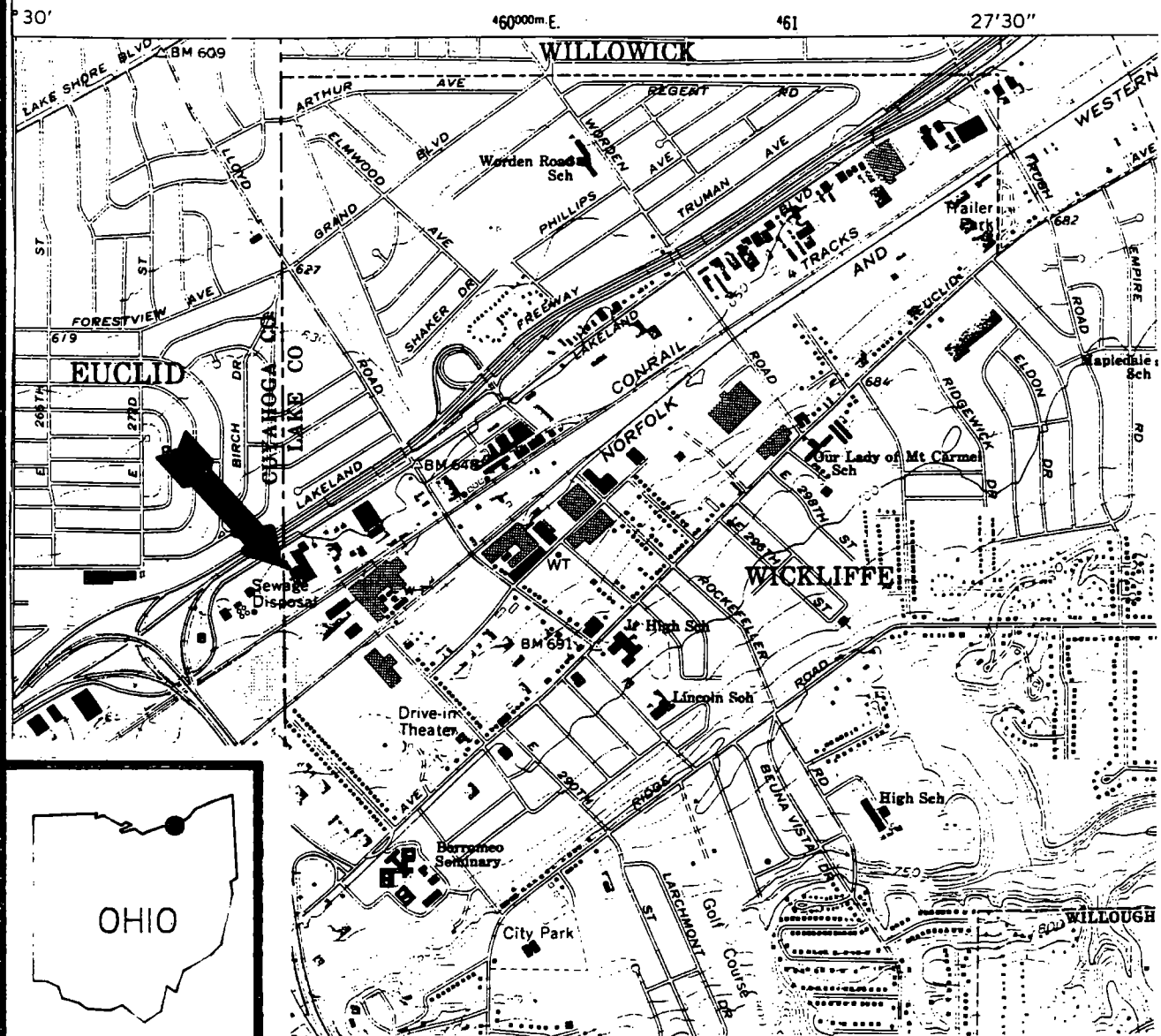


FIGURE 1

SITE LOCATION MAP

HENDERSHOT AND SMITH, INCORPORATED
WICKLIFFE, LAKE COUNTY, OHIO

SCALE 1:24000

WESTON
MANAGERS DESIGNERS/CONSULTANTS

**MAJOR
PROGRAMS
DIVISION**

REGION V TECHNICAL ASSISTANCE TEAM

DRAWN BY
K. DOOLEY

DATE
04-25-90

PCS #
2704

APPROVED BY
K. DOOLEY

DATE
04-25-90

TDD #
5-9004-18



Mr. Duane Heaton

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July 6, 1990

The TAT arrived at the Wickliffe Fire Department and met with OSC Renninger, Chief Bochenek, and Joe Busher of Lake County Local Emergency Planning Committee (LEPC) to discuss the situation at Hendershot and Smith. Chief Bochenek informed the group of the incidents at Hendershot and Smith involving a quench oil release on April 18, 1990, and a second incident involving a quench oil release and fire occurring on April 19, 1990. The discussion concerned EPA jurisdiction, the environmental impact of the preceding incidents, the method for addressing the conditions at the site, and the potential for future incidents at the facility.

Chief Bochenek arranged a meeting with Hendershot and Smith representatives at the facility (Figure 2). Conversation with the company representatives revealed that two separate processes are used at the plant for treating metal parts. One process involves heating metal parts and then cooling the parts in quench oil. The second process at the plant uses cyanide in treating the metal parts, but this process is separate from the heat treating process and does not involve the quench oil.

After obtaining background site information, OSC Renninger, TAT, Chief Bochenek, and a representative from Hendershot and Smith entered the facility to evaluate the extent of the spill while Mr. Busher reviewed Material Safety Data Sheets (MSDS) sheets of the facility to determine compliance with LEPC regulations. Richard Hendershot explained that the quench oil spill on April 18, 1990 was the result of an accident involving the removal of heat treated metal parts from the furnace during which an unknown quantity of oil was spilled. On April 19, 1990, a second spill occurred as the result of quench oil contamination (possibly with water) causing boiling and expansion of the quench oil which then spilled onto the plant floor, contacted the hot furnace and ignited. The quantity of oil spilled was estimated between 50 to 200 gallons; fire control increased the volume of fluid needing containment. Absorbent material had been used to contain the spill. Mr. Hendershot said polychlorinated biphenyl (PCB) oil had never been used at the facility. Scattered refuse and mislabeled drums were observed at the facility. OSC Renninger determined that sampling and analysis of the quench oil was necessary to determine its potential hazard.

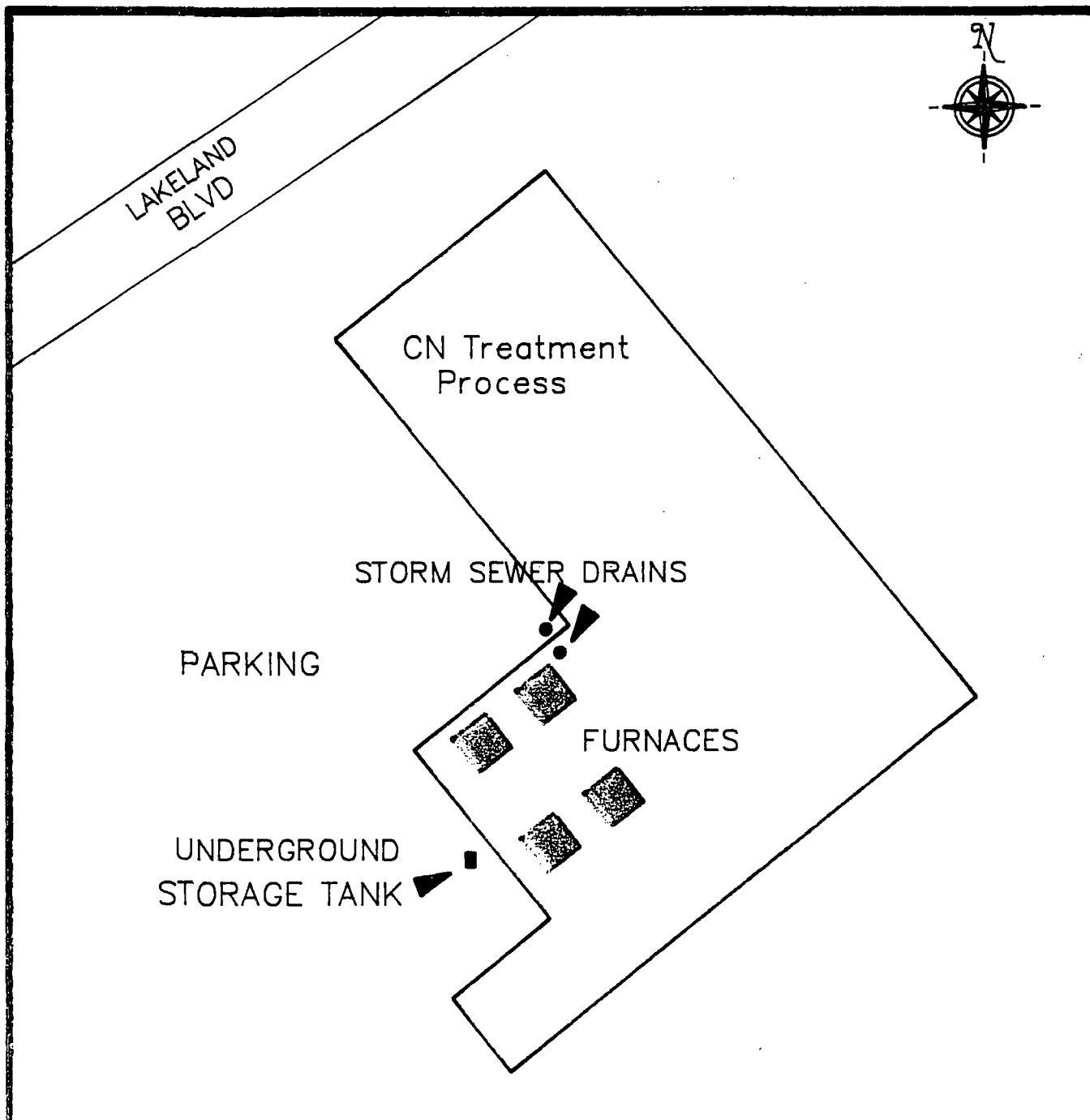


FIGURE 2

HENDERSHOT & SMITH, INC.

HENDERSHOT AND SMITH, INCORPORATED

WICKLIFFE, LAKE COUNTY, OHIO

NOT TO SCALE

WESTON
MANAGERS DESIGNERS/CONSULTANTS

**MAJOR
PROGRAMS
DIVISION**

REGION V TECHNICAL ASSISTANCE TEAM

DRAWN BY K. DOOLEY	DATE 04-25-90	PCS # 2704
APPROVED BY K. DOOLEY	DATE 04-25-90	TDD # 5-9004-18



Mr. Duane Heaton

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July 6, 1990

On April 23, 1990, the TAT met with Chief Bochenek and Mr. Hendershot at the facility and collected one oil sample from the underground storage tank which contained water and spent quench oil recovered from the spill. The sample was analyzed for hazardous substance list (HSL) metals, cyanide and PCB by ATEC Associates under TAT Analytical Services TDD# 5-9004-L13. Analytical results of the quench oil did not indicate any constituents which would classify the material released as hazardous. Based on the analytical results, OSC Renninger determined that no further TAT involvement at the site was required. Analytical results are summarized in Attachment A.

Should you have any questions or require additional information, please feel free to contact us.

Very truly yours,

ROY F. WESTON, INC.

Sally Matz

For Kieran Dooley
Environmental Scientist

William R. Doyle

William R. Doyle
Technical Assistance Team
Leader, Region V

KD:dn
Attachment
cc: S. Renninger, OSC

ATTACHMENT A

ANALYTICAL RESULTS

TABLE 1

ANALYTICAL RESULTS OF SAMPLE COLLECTED BY THE TAT¹HENDERSHOT & SMITH, INCORPORATED
WICKLIFFE OHIO

(All results in mg/kg unless otherwise indicated)

PCBS

<u>Parameter</u>	<u>Concentration</u>
PCB-1242	ND
PCB-1254	ND
PCB-1221	ND
PCB-1232	ND
PCB-1248	ND
PCB-1260	ND
PCB-1016	ND

TOTAL METALS & CYANIDE

<u>Parameter</u>	<u>Concentration</u>
Aluminum	38
Antimony	ND
Arsenic	ND
Barium	3.5
Beryllium	ND
Cadmium	ND
Calcium	130
Chromium	ND
Cobalt	ND
Copper	ND
Iron	53
Lead	ND
Manganese	ND
Magnesium	15
Mercury	ND
Nickel	2.8
Potassium	120
Selenium	ND
Silver	ND
Sodium	170
Tin	9.4
Thallium	ND
Vanadium	ND
Zinc	16.0
Cyanide	ND

ND = Not detected at method detection limit

¹Samples analyzed by ATEC Associates under TAT Analytical Services TDD# 5-9004-L13

ATTACHMENT B

SITE PHOTOGRAPHS



PHOTO: 1 PCS# 2704
 ROLL/PICTURE: 1/11
 SITE NAME: HENDERSHOT & SMITH, INC.
 DESCRIPTION: OUTSIDE VIEW OF HEAT TREATMENT FACILITY,
 PARKING LOT.
 DATE/TIME: 4-20-90 / 1440
 PHOTOGRAPHER: DOOLEY
 FILM: 35MM, 200 ASA, NO ATTACHMENTS



PHOTO: 2 PCS# 2704
 ROLL/PICTURE: 1/9
 SITE NAME: HENDERSHOT & SMITH, INC.
 DESCRIPTION: L TO R TAT MENCIN, OSC RENNINGER, CHIEF
 BOCHENEK (WICKLIFFE FIRE DEPT), TAT FINCH.
 DATE/TIME: 4-20-90 / 1435
 PHOTOGRAPHER: DOOLEY
 FILM: 35MM, 200 ASA, NO ATTACHMENTS



PHOTO: 3
 ROLL/PICTURE: 1/1
 SITE NAME: HENDERSHOT & SMITH, INC.
 DESCRIPTION: ENTRANCE TO HEAT TREATING FACILITY: FLOOR, DRAINS, ABSORBENT, MACHINERY, PERSONNEL
 DATE/TIME: 4-20-90 / 1400
 PHOTOGRAPHER: DOOLEY ~D.
 FILM: 35mm, 200 ASA, NO ATTACHMENTS



PHOTO: 4
 ROLL/PICTURE: 1/2
 SITE NAME: HENDERSHOT & SMITH, INC.
 DESCRIPTION: ENTRANCE TO HEAT TREATING FACILITY, ABSORBENT DIKE, DRAIN, MACHINERY.
 DATE/TIME: 4-20-90 / 1400
 PHOTOGRAPHER: DOOLEY ~D.
 FILM: 35mm, 200 ASA, NO ATTACHMENTS



PHOTO: 5
 ROLL/PICTURE: 1/5
 SITE NAME: HENDERSHOT & SMITH, INC.
 DESCRIPTION: DAMAGED MACHINERY - SITE OF SECOND SPILL
 AND FIRE, ABSORBENT, EQUIPMENT.
 DATE/TIME: 4-20-90 / 1415
 PHOTOGRAPHER: DOOLEY D
 FILM: 35MM, 200 ASA, NO ATTACHMENTS



PHOTO: 6
 ROLL/PICTURE: 1/4
 SITE NAME: HENDERSHOT & SMITH, INC.
 DESCRIPTION: OPERATIONAL HEAT TREATING FURNACE,
 EQUIPMENT, ABSORBENT, PERSONNEL.
 DATE/TIME: 4-20-90 / 1415
 PHOTOGRAPHER: DOOLEY D
 FILM: 35MM, 200 ASA, NO ATTACHMENTS



PHOTO: 7
 ROLL/PICTURE: 1/6
 SITE NAME: HENDERSHOT & SMITH, INC.
 DESCRIPTION: HEAT TREATMENT QUENCH OIL DISCHARGE OUTLET
 AND OPENING TO UNDERGROUND STORAGE TANK.
 DATE/TIME: 4-20-90 / 1420
 PHOTOGRAPHER: DOOLEY *ND*
 FILM: 35MM, 200 ASA, NO ATTACHMENTS

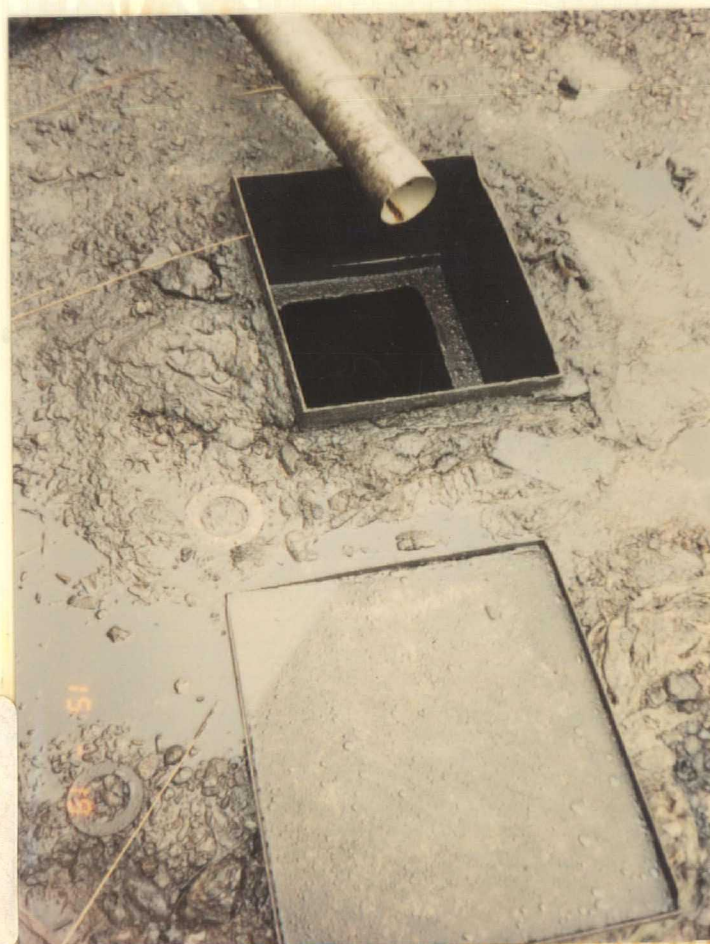


PHOTO: 8
 ROLL/PICTURE: 1/7
 SITE NAME: HENDERSHOT & SMITH, INC.
 DESCRIPTION: HEAT TREATMENT QUENCH OIL DISCHARGE
 OUTLET, UST OPENING, OIL SOAKED GROUND.
 DATE/TIME: 4-20-90 / 1425
 PHOTOGRAPHER: DOOLEY *ND*
 FILM: 35MM, 200 ASA, NO ATTACHMENTS



PHOTO: 9 PCS# 2704
 ROLL/PICTURE: 1/16
 SITE NAME: HENDERSHOT & SMITH, INC.
 DESCRIPTION: SAMPLING QUENCH OIL FROM UST, BAILER ON
 ROPE, LEVEL C, OIL SOAKED GROUND.
 DATE/TIME: 4-23-90 / 1030
 PHOTOGRAPHER: FINCH
 FILM: 35MM, 200 ASA, NO ATTACHMENTS



PHOTO: 10 PCS# 2704
 ROLL/PICTURE: 1/18
 SITE NAME: HENDERSHOT & SMITH, INC.
 DESCRIPTION: SAMPLING OIL FROM UST W/BAILER ON ROPE,
 FILLING 120 ML GLASS JAR, LEVEL C, CGI.
 DATE/TIME: 4-23-90 / 1035
 PHOTOGRAPHER: FINCH
 FILM: 35MM, 200 ASA, NO ATTACHMENTS

